

April 7, 2005

Mr. John Jang
Regional Water Quality Control Board (RWQCB)
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Re: **Subsurface Investigation Report**
Chevron Service Station 9-4737
90 Madera Boulevard
Corte Madera, California
UST File No. 21-0034 (JMJ)



Dear Mr. Jang:

On behalf of Chevron Environmental Management Company (ChevronTexaco), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation Report* for the site referenced above. Cambria installed monitoring well MW-4 to further evaluate the extent of diesel hydrocarbons and methyl tertiary butyl ether (MTBE) in soil and groundwater. The work was performed in accordance with Cambria's *Workplan for Monitoring Well Installation and Well Destruction*, dated September 28, 2004, as approved by the RWQCB in a letter dated January 12, 2005 (Attachment A.) The site background, details of the investigation, and our conclusions and recommendations are presented below.

SITE BACKGROUND

The site is an active service station located in the northeast corner of the Town Center Corte Madera at 90 Madera Boulevard in Corte Madera, California (Figure 1). Land use in the area is mixed commercial and residential. The site is bordered to the south and west by the Town Center Corte Madera parking lot and to the east by Highway 101. The current site configuration consists of a station building, six fuel dispensers, one diesel UST, three gasoline USTs, and associated product piping (Figure 2). An accidental release of diesel fuel occurred on February 4, 1991. This initiated the installation of three monitoring wells.

Cambria
Environmental
Technology, Inc.

4111 Citrus Avenue
Suite 9
Rocklin, CA 95677
Tel (916) 630-1855
Fax (916) 630-1856

Previous Investigations

Used-Oil UST Replacement: In December 1990, a 550 gallon used-oil UST was removed from the site and a new used-oil tank was installed in a new location. Concentrations up to 150 mg/kg total petroleum hydrocarbons as gasoline (TPHg), and 366 mg/kg total petroleum hydrocarbons as diesel (TPHd) were reported in soil collected during UST removal. On January 10, 1991, approximately 30 cubic yards (cy) of soil were removed from the used-oil UST basin. Details are presented in Sierra Environmental Services (SES) tank removal letter, dated January 29, 1991.



Soil Excavation, Monitoring Well Installation, and Well Survey: On February 6, 1991, SES collected soil samples from the sidewalls of the renovated fuel UST basin following an accidental release of diesel. Concentrations up to 43mg/kg TPHd was reported in the soil samples. On February 11, 1991, SES collected grab-groundwater samples from the UST excavation. Hydrocarbon concentrations up to 32,000 µg/L TPHg, 410,000 µg/L TPHd, and 2,000 µg/L benzene were reported in the groundwater samples. Approximately 80 cy of soil were excavated from the perimeter of the UST basin after 20,000 gallons of water and diesel were pumped from the tank pit. On February 27, 1991, SES installed groundwater monitoring wells MW-1, MW-2, and MW-3. A water supply well survey was also performed. Three wells were identified within a half mile radius of the site. None of these wells are down-gradient of the site. Details are presented in SES's *Subsurface Investigation* report, dated May, 13, 1991.

Monitoring Well Installation: In November 1995, Earth Technology installed an offsite, down-gradient groundwater monitoring well (ACMW-1) to 30.50 feet below grade (fbg) for additional plume delineation.

Used-oil UST Removal: In November 1997, Touchstone Developments Environmental Management removed a 1,000 gallon single-walled fiberglass used-oil UST. A soil sample collected from 8 fbg in the UST basin after tank removal contained 64 mg/kg oil and grease. No TPHg or benzene was reported. Unidentified hydrocarbons in the diesel range were reported at 5.5 mg/kg. Details are presented in Touchstone Developments *Used-Oil Tank Removal and Sampling Report*, dated November 20, 1997.

HYDROGEOLOGY/SOIL LITHOLOGY

Measured depth to water below the site has historically ranged between 2.39 and 7.99 fbg. Groundwater beneath the site typically flows south-southwest. The nearest surface water bodies are a tidal creek approximately 1,600 feet east of the site, and Richardson Bay approximately 4,200 feet east of the site.

The site is located in the Coast Range geomorphic province, comprised of sedimentary and metamorphic rocks with local exposures of rocks from the Franciscan complex. The site is underlain by artificial fill and bay mud.



INVESTIGATION RESULTS

The objective of this investigation was to further evaluate the down-gradient definition of the extent of diesel hydrocarbons and MTBE in soil and groundwater. To meet this objective, Cambria installed monitoring well MW-4 down-gradient of the USTs. The results of Cambria's March 8, 2005 subsurface investigation are summarized below. Analytical results of the soil are summarized in Table 1. Analytical results of groundwater are summarized in Table 2. The drilling permit is included in Attachment B. The boring logs are presented as Attachment C. The analytical reports of soil and groundwater samples for the investigation are presented as Attachment D. Cambria's Standard Field Procedures are presented as Attachment E.

Soil Borings

| | |
|-----------------------------------|--|
| <i>Permits:</i> | County of Marin Community Development Agency permit number MW 04/05 – 11(1) is included in Attachment B. |
| <i>Drilling Dates:</i> | MW-4 was advanced on March 8, 2005. |
| <i>Drilling Company:</i> | Gregg Drilling, Inc. of Martinez, CA (C-57 Lic. # 485165). |
| <i>Sampling Personnel:</i> | Staff Scientist Kiersten Hoey conducted all fieldwork under the supervision of California Professional Geologist David W. Herzog (P.G. #7211). |

***Drilling Method:***

The first 8 feet of the boring was cleared using an air-knife/vacuum rig to ensure no subsurface utilities would be encountered. Below 8 feet, boring MW-4 was drilled to a total depth of 20 fbg. The boring was drilled using 8-inch hollow-stem augers.

Soil Sampling:

Soil samples were collected every five feet, beginning at 5 fbg. The 5 fbg sample was collected by driving a 2-inch diameter brass tube into disturbed sediments. Samples between 10 and 20 fbg were collected by driving an 18-inch-long split-spoon sampler lined with 2-inch-diameter brass tubes into undisturbed sediments. Table 1 lists the soil analytical data.

Soil Screening:

Soil samples were screened using a photo-ionization detector (PID). Samples were selected for analyses based on PID readings, evidence of discoloration, stratigraphic location, and depth to groundwater.

Encountered Lithology:

Lithology encountered in the boring consisted of fill to approximately 4.5 fbg, underlain by silty clay to approximately 20 fbg (total depth explored).

Laboratory Analyses:

Selected soil samples were analyzed by Lancaster Laboratories for:

- TPHg by N. CA LUFT Gasoline method;
- TPHd by CALUFT-DRO/8015B using silica gel clean-up; and
- Benzene, toluene, ethyl-benzene, xylenes (BTEX), MTBE, di-Isopropyl ether (DIPE), Ethyl tertiary butyl ether (ETBA), Tertiary amyl methyl ether (TAME), Tertiary butyl alcohol (TBA), 1,2-Dichloroethane (1,2-DCA), and 1,2-Dibromoethane (EDB) by EPA Method 8260B

Soil Disposal:

Soil cuttings were stored in drums on-site, removed by Integrated Waste Management and transported to Republic Services Vasco Road Landfill in Livermore, California.

Well Construction***Well Materials:***

Well MW-4 was constructed with two-inch diameter, schedule 40 PVC pipe casing and 0.010-inch screen, Monterey Sand #2/16 filter pack, a 1-foot bentonite seal above the screen and sand pack and filled with neat Portland cement to grade.

Screened Interval:

The screen interval for well MW-4 is 5 to 20 fbg.

Depth to Groundwater:

Groundwater was encountered at approximately 6 fbg.

Well Development:

Gettler-Ryan, Inc. developed well MW-4 on March 18, 2004 using surge-block agitation and bailer evacuation.

Groundwater Sampling:

Groundwater samples were collected from well MW-4, and wells MW-1, MW-2, MW-2, and ACMW-1 on March 18, 2005 (Attachment D).

Groundwater Analyses:

Groundwater samples was analyzed for:

- TPHg by N. CA LUFT Gasoline Method;
- TPHd by Modified CALUFT-DRO/8015B with silica gel cleanup; and
- BTEX, and fuel oxygenates: MTBE, TBA, DIPE, TAME, ETBE, and lead scavengers 1,2-DCA and EDB by EPA Method 8260B

Top-of-Casing Elevations: On March 29, 2005, Licensed Land Surveyor Morrow Surveying (#LS5161) surveyed the top-of-casing for wells MW-1 through MW-4 and ACMW-1. The well survey data are provided in Attachment F.

HYDROCARBONS IN SOIL

No TPHg, benzene, or ethylbenzene was reported in any sample. TPHd was only reported in the soil sample collected from 5 fbg at 17 mg/kg. Xylenes and toluene were also reported in the 5 fbg sample at 0.002 mg/kg each. No oxygenates or lead scavengers were detected, except 0.0009 mg/kg MTBE at 15 fbg was reported in the soil samples. The vertical extent of hydrocarbons in soil is defined in well MW-4. The lateral extent of TPHd and MTBE in down-gradient soil is essentially defined to concentrations just above the laboratory detection limits by MW-4. Analytical results for soil are presented in Table 1. The laboratory analytical report for soil is presented as Attachment D.

HYDROCARBONS IN GROUNDWATER

Monitoring well MW-4 was installed down-gradient of the source area. Groundwater samples were collected from all site wells and analyzed for TPHd, TPHg, BTEX, 1,2-DCA, EDB, ethanol, and five oxygenates. TPHd was reported in all wells. The highest concentration of TPHd was reported in MW-3 at 930 µg/L. TPHg and benzene were reported only in MW-2 at 670 µg/L and 1 µg/L, respectively. MTBE was reported in MW-2, MW-3, and MW-4 at 36 µg/L, 150 µg/L, and 1 µg/L, respectively. TAME and TBA were also reported in MW-2 and MW-3. TPHg and benzene appear limited to the groundwater beneath the source area and have not migrated off-site. MTBE appears essentially defined up-, cross-, and down-gradient of the source area. Analytical results for groundwater samples are presented in Table 2. The laboratory analytical report for groundwater is presented as Attachment D.

CONCLUSIONS AND RECOMMENDATIONS

The vertical extent of hydrocarbons in soil is defined by monitoring well MW-4. Lateral extent of TPHd and MTBE in down-gradient soil is essentially defined to concentrations just above the laboratory detection limits by MW-4. TPHg and benzene appear limited to the groundwater beneath the source area and have not migrated off-site. MTBE appears essentially defined in all directions. Continued groundwater monitoring is necessary to evaluate diesel range hydrocarbon

attenuation. Therefore, Cambria recommends continued monitoring and sampling of wells MW-1 through MW-4 and ACMW-1. Cambria will recommend case closure for this site if diesel concentrations continue to decrease. Destruction of wells MW-1 through MW-3 as proposed in Cambria's September 28, 2004 workplan has been postponed pending finalization of site redevelopment plans by ChevronTexaco.

CLOSING

Please contact Kiersten Hoey (ext. 105) at (916) 630-1855 with any questions or if you require additional information.



Sincerely,
Cambria Environmental Technology, Inc.

Kiersten Hoey
Kiersten Hoey
Staff Scientist

David W. Herzog
David W. Herzog P.G. #7211
Senior Project Geologist



- Figures: 1 – Vicinity Map
2 – Site Plan
- Tables: 1 – Soil Analytical Data
2 – Groundwater Analytical Data
- Attachments: A – Regulatory Correspondence
B – Drilling Permit
C – Boring Log
D – Laboratory Analytic Reports
E – Standard Field Procedures for Borings and Wells.
F – Well Survey Data

cc: Mr. Dana Thurman, Chevron Environmental Management Company, PO Box 6012,
Room K2236 San Ramon, California 94583

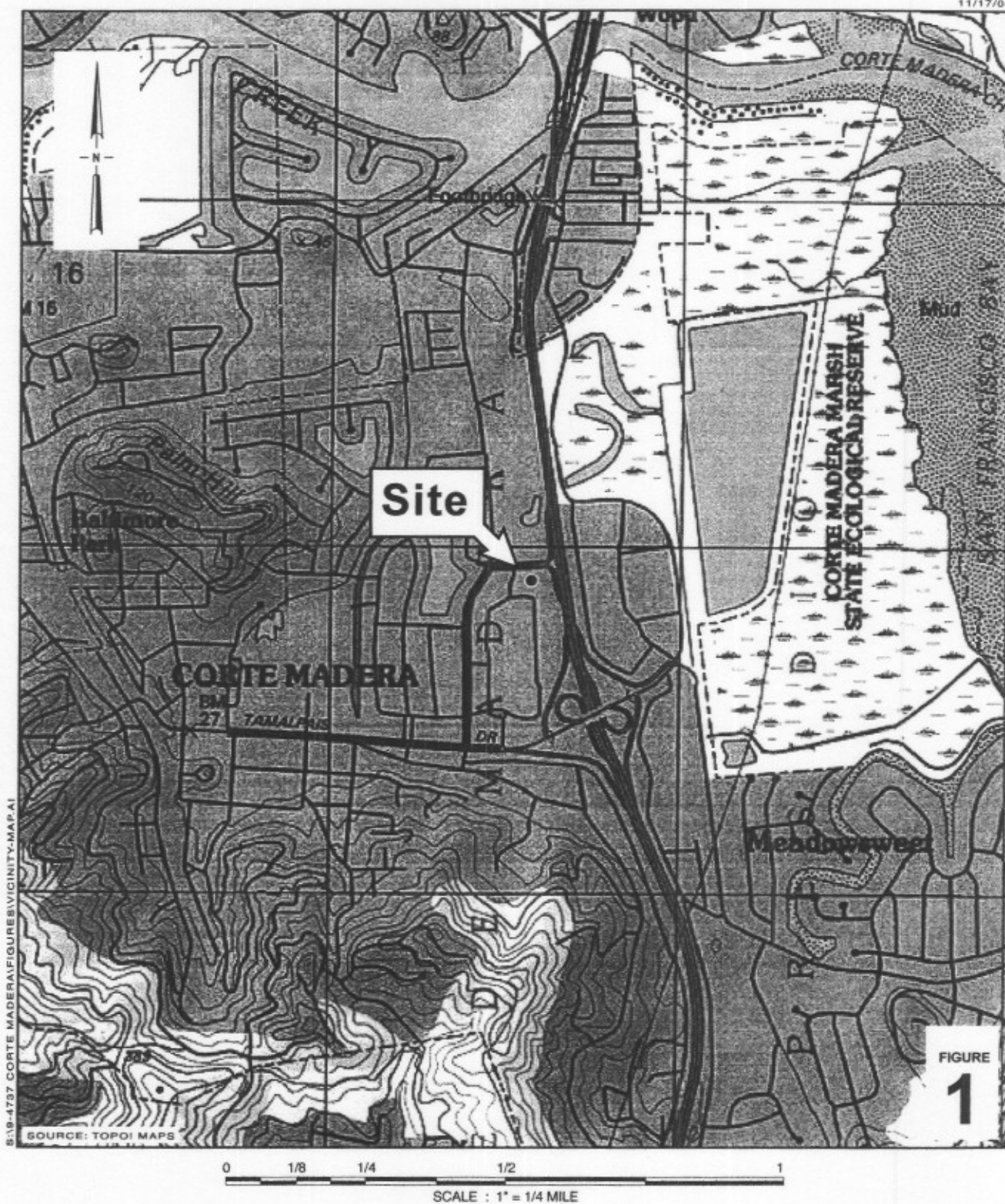
Mr. Tomothy Underwood, Marin County Department of Public Works, Office of waste
Management, P.O. Box 4186, San Rafael, CA 94913

Mr. Stan Hoffman, Madison-Marquette Managmenet Co., 100 Corte Madera Town
Center, Corte Madera, CA 94925

Ms. Kathleen Burgi-Sandell, Lend-Lease, 1 Front St, Suite 1100, San Francisco, CA
94111.

Cambria Environmental Technology, Inc.





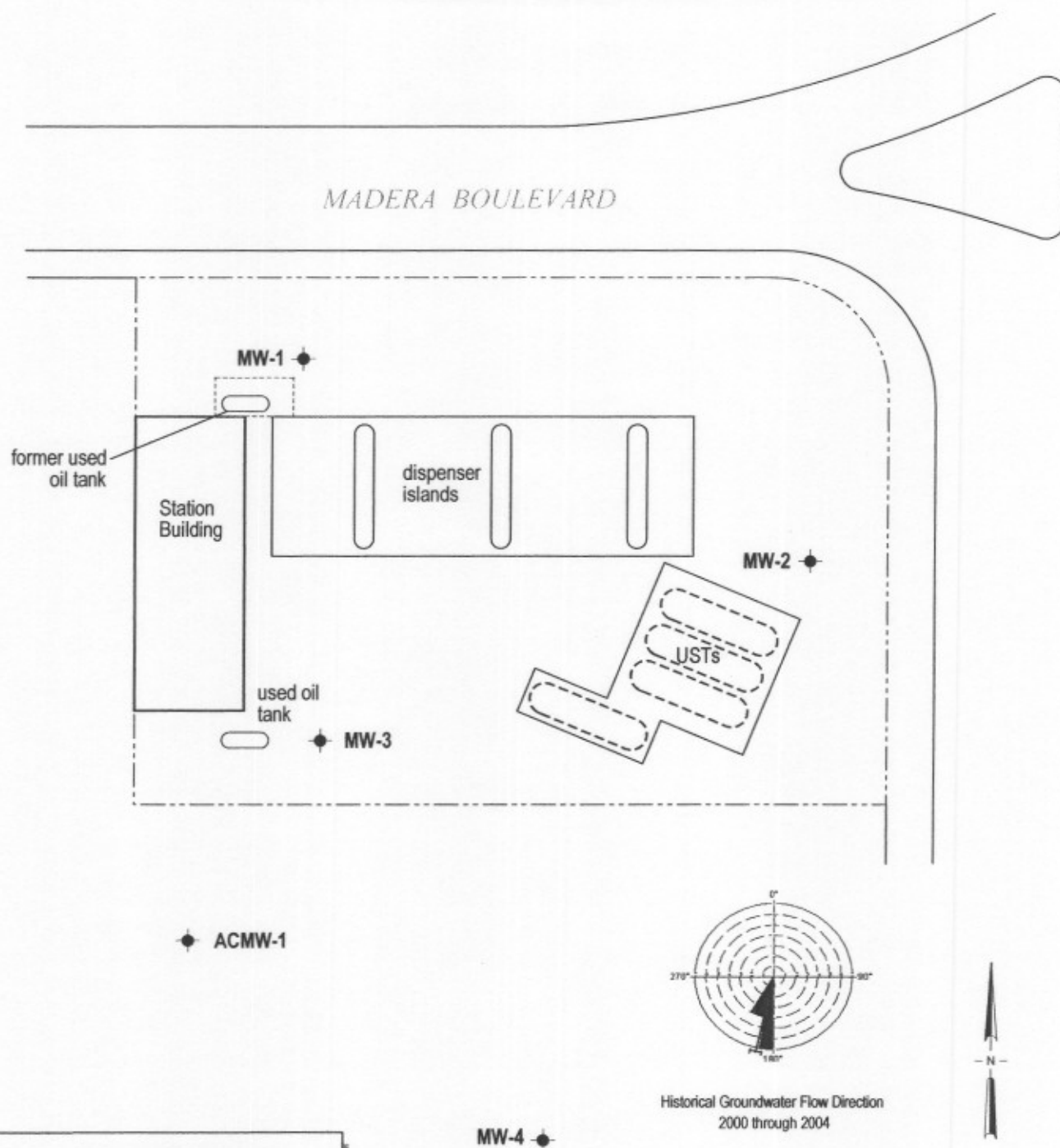
Chevron Service Station 9-4737

90 Madera Boulevard
Corte Madera, California



C A M B R I A

Vicinity Map



EXPLANATION

MW-1 • Monitoring well location

MW-4 •

0 20 40
Scale (ft)

FIGURE

2

Chevron Service Station 9-4737

90 Madera Boulevard

Corte Madera, California



C A M B R I A

Site Plan

Table 1

Analytical Results for Soil

Chevron Station #9-4737, 90 Corte Madera Blvd, Corte Madera, CA

| Sample ID | Depth (fbg) | Date | TPHd | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DIPE | ETBE | TAME | TBA | 1,2-DCA | EDB | Total Lead |
|---------------------------|----------------|----------|------|------|---------|---------|--------------|---------|---------|--------|--------|--------|--------|---------|--------|------------|
| (Concentrations in mg/kg) | | | | | | | | | | | | | | | | |
| MW-4 | 5 | 3/8/2005 | 17* | <1.0 | <0.0005 | 0.002 | <0.001 | 0.002 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.020 | <0.001 | <0.001 | - |
| | 10 | 3/8/2005 | <10* | <1.0 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.020 | <0.001 | <0.001 | - |
| | 15 | 3/8/2005 | <10* | <1.0 | <0.0005 | <0.001 | <0.001 | <0.001 | 0.0009 | <0.001 | <0.001 | <0.001 | <0.020 | <0.001 | <0.001 | - |
| | 20 | 3/8/2005 | <10* | <1.0 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.0005 | <0.001 | <0.001 | <0.001 | <0.020 | <0.001 | <0.001 | - |
| SP | | 3/8/2005 | <10 | <1.0 | <0.005 | <0.005 | <0.005 | <0.02 | <0.05 | - | - | - | - | - | - | 5.37 |

Abbreviations/Notes

TPHg = total petroleum hydrocarbons as gas

TPHd = total petroleum hydrocarbons as deisel

MTBE = methyl tertiary butyl ether

DIPE = di-isopropyl ether

ETBE = ethyl tertiary butyl ether

TAME = tertiary amyl methyl ether

TBA = tertiary butyl ether

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

<x.xx = not detected above laboratory detection limit

"-*" = not analyzed

SP = Composite Sample

Cambria

Table 2
Analytical Results for Groundwater
Chevron Station #9-4737, 90 Corte Madera Blvd, Corte Madera, CA

| Sample ID | Date | TPHd | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DIPE | ETBE | TAME | TBA | 1,2-DCA | EDB | Ethanol |
|--------------------------|-----------|------|------|---------|---------|--------------|---------|------|------|------|------|-----|---------|------|---------|
| (Concentrations in ug/L) | | | | | | | | | | | | | | | |
| MW-1 | 3/18/2005 | 360* | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <50 |
| MW-2 | 3/18/2005 | 410* | 670 | 1 | <0.5 | 2 | 0.5 | 36 | <0.5 | <0.5 | 4 | 6 | <0.5 | <0.5 | <50 |
| MW-3 | 3/18/2005 | 930* | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 150 | <0.5 | <0.5 | 7 | 260 | <0.5 | <0.5 | <50 |
| MW-4 ^[1] | 3/18/2005 | 210* | <50 | <0.5 | 0.5 | <0.5 | <0.5 | 1 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <50 |
| ACMW-1 | 3/18/2005 | 100* | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <5 | <0.5 | <0.5 | <50 |
| QA | 3/18/2005 | - | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - | - | - | - | - |

Abbreviations/Notes

TPHd = total petroleum hydrocarbons as diesel

TPHg = total petroleum hydrocarbons as gas

MTBE = methyl tertiary butyl ether

DIPE = di-Isopropyl ether

ETBE = ethyl tertiary butyl ether

TAME = tertiary amyl methyl ether

TBA = tertiary butyl ether

1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

<x.xx = not detected above the detection limit

"-" = not analyzed

ug/L = micrograms per liter

* = with silica gel cleanup

[1] = Sample submitted for volatile analysis did not have a pH<2, but a pH=7. Although the sample does not appear properly preserved, it was analyzed within seven days of collection, which is within the holding time of an unpreserved sample.



ATTACHMENT A

Regulatory Correspondence



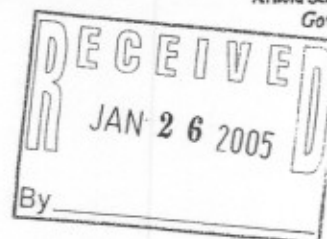
California Regional Water Quality Control Board

San Francisco Bay Region

Dr. Alan Lloyd
Secretary for
Environmental
Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
<http://www.waterboards.ca.gov/sanfranciscobay>

Arnold Schwarzenegger
Governor



Chevron Environmental Management Co.
Attn: Ms. Karen Streich
P. O. Box 6012
San Ramon, CA 94583

January 12, 2005
UST File No. 21-0034 (JMJ)

Dear Ms. Streich:

SUBJECT: Approval of "Workplan for Monitoring Well Installation and Well Destruction" dated September 28, 2004, and Requirement for a Technical Report for Chevron Station 9-4737, 90 Madera Blvd., Corte Madera, Marin County

Regional Board staff has reviewed the subject workplan dated September 28, 2004. This workplan proposes to destroy the three on-site monitoring wells during the second quarter of 2005 to facilitate site reconstruction. The reconstruction includes replacement of the USTs, dispenser islands, canopies, and convenience store. The workplan also propose to install one off-site downgradient monitoring well. You are hereby granted approval for the implementation of the workplan.

As the current owner and/or operator of the subject site, you are required to submit a technical report pursuant to Section 13267 of the California Water Code. **The required technical report is due in this office by April 10, 2005, and shall consist of a report documenting the installation of the monitoring well proposed in the September 28, 2004, workplan.** Failure to respond or a late response to this request may subject you to civil liability imposed by the Water Board to a maximum amount of \$1000 per day. Any extensions of the time deadlines set forth above must be confirmed in writing by Board staff.

Please include the Regional Board file number shown in the heading of this letter. All workplans, reports, and correspondence must be submitted to this Water Board with a copy sent to Mr. Tim Underwood of the Marin County of Waste Management.

Please direct all questions and correspondence regarding this matter to John Jang of my staff at (510) 622-2366 (email address jjang@waterboards.ca.gov).

| | | | | | |
|-------------------|----------------|---------|--------------|------------|---|
| Post-it® Fax Note | 7671 | Date | 1/26/05 | # of pages | 1 |
| To | Davis & Loring | From | John Jang | | |
| Co./Dept. | Cambridge | Co. | RWD/CEFL | | |
| Phone # | | Phone # | 510-622-2366 | | |
| Fax # | 916-638-1856 | Fax # | | | |

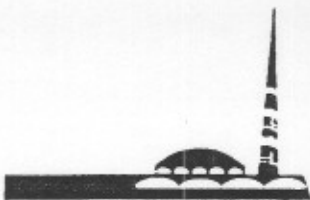
Sincerely,

Bruce H. Wolfe
Executive Officer

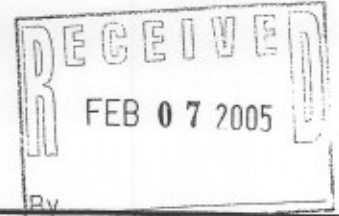
CAMBRIA



ATTACHMENT B
Drilling Permit



COUNTY OF MARIN
COMMUNITY DEVELOPMENT AGENCY



PERMIT TO INSTALL MONITORING WELLS

Environmental Health Services
3501 Civic Center Drive, Rm 236
San Rafael, CA 94903
(415) 499-6907
FAX (415) 507-4120

Date of Issuance: February 2, 2005
Date of Expiration: February 2, 2006

To: Chevron Environmental Management
PO Box 6012
San Ramon, CA 94583

Permit No.: MW 04/05 - 11 (1)

Street Address: 90 Corte Madera Town Center

City: Corte Madera

Assessor's Parcel No: 024-163-01

Driller: Gregg Drilling, Inc. 950 Howe Road, Martinez, CA 94553

Permission is hereby granted to construct one (1) monitoring well(s) at the above, indicated site.

In order to provide the necessary inspections, the well driller shall notify this office at (415) 499-6907 at least **two working days** in advance of drilling the well. Also, contact Environmental Health on the day of the work. The annular seal shall not be placed until approval from Environmental Health Service is granted.


CONDITIONS:

1. This permit is not valid in the Coastal Zones until a Coastal permit is first obtained.
2. This permit is not valid until local encroachment permits are first obtained. Please contact appropriate city, park or special district agencies for more information.
3. **Install sanitary seals with a minimum depth of five feet.**

Well construction shall meet the requirements of the current State of California Well Standards Bulletin 74-90 (as revised) and the CCR Title 26. The well driller shall submit a Department of Water Resources Form 188 (Water Well Drillers Report) within 30 days of project completion.

Marin County Office of Waste Management must be notified prior to drilling well.

Issued by,


Scott Callow, Senior R.E.H.S.

c: Cambria Env. Tech, 4111 Citrus Ave #12, Rocklin, CA 95677
Marin County Waste Management
Town of Corte Madera

OFFICE USE ONLY

1. _____
2. _____
3. _____



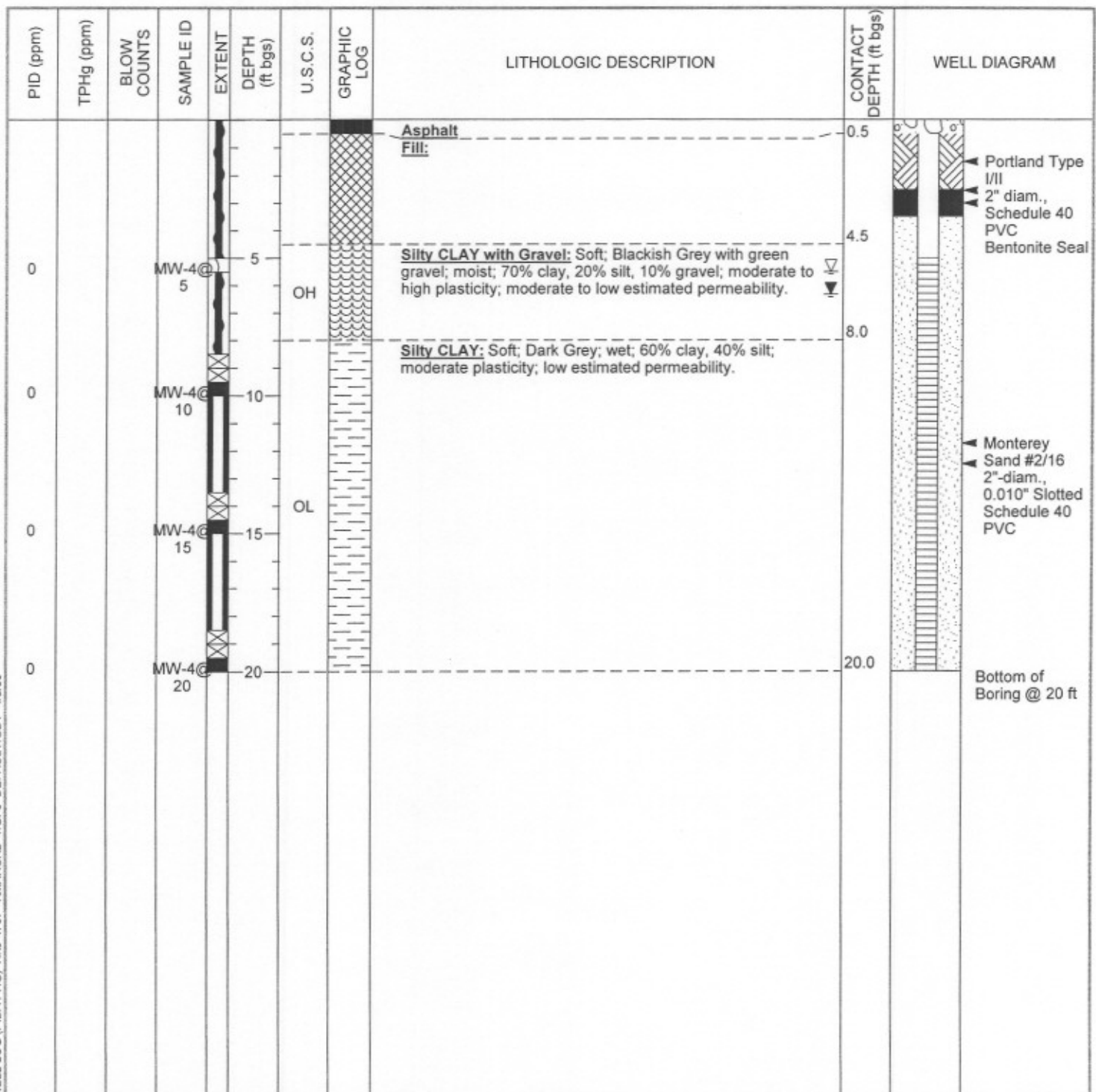
ATTACHMENT C
Boring Log



Cambria Environmental Technology, Inc.
2680 Bishop Drive, Suite 290
San Ramon, CA 94583
Telephone: (925) 275-3200
Fax: (925) 275-3204

BORING/WELL LOG

| | | | |
|-----------------|---|------------------------------------|--------------------|
| CLIENT NAME | Chevron Products Company | BORING/WELL NAME | MW-4 |
| JOB/SITE NAME | 9-4737 | DRILLING STARTED | 08-Mar-05 |
| LOCATION | 90 Corte Madera Town Center | DRILLING COMPLETED | 08-Mar-05 |
| PROJECT NUMBER | 61H-1669 | WELL DEVELOPMENT DATE (YIELD) | NA |
| DRILLER | Gregg Drilling | GROUND SURFACE ELEVATION | |
| DRILLING METHOD | Hollow-stem auger | TOP OF CASING ELEVATION | NA |
| BORING DIAMETER | 8-inches | SCREENED INTERVAL | 5 to 20 ft bgs |
| LOGGED BY | K. Hoey | DEPTH TO WATER (First Encountered) | 5.5 ft (08-Mar-05) |
| REVIEWED BY | D. Herzog P.G. #7211 | DEPTH TO WATER (Static) | 6.3 ft (18-Mar-05) |
| REMARKS | Boring cleared to 8 fbg with air knife and hand auger | | |



C A M B R I A



ATTACHMENT D

Laboratory Analytic Reports



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677
916-630-1855

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 934860. Samples arrived at the laboratory on Thursday, March 10, 2005. The PO# for this group is 99011184 and the release number is THURMAN.

| <u>Client Description</u> | | <u>Lancaster Labs Number</u> |
|---------------------------|-----------|------------------------------|
| MW-4-S-5-050308 | Grab Soil | 4479187 |
| MW-4-S-10-050308 | Grab Soil | 4479188 |
| MW-4-S-15-050308 | Grab Soil | 4479189 |
| MW-4-S-20-050308 | Grab Soil | 4479190 |

1 COPY TO

Cambria Environmental

Attn: Jami Shaffer



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Robin C. Runkle".

Robin C. Runkle
Senior Chemist



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. SW 4479187

MW-4-S-5-050308 Grab Soil
Facility# 94737 MTI# 61H-1669 CETR
90 Corte Madera-Corte Mad T0604100033 MW-4
Collected: 03/08/2005 12:30 by KH

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/18/2005 at 12:27
Discard: 04/18/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

CMC05

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | Units | Dilution Factor |
|---|--------------------------------|------------|--------------------|--------------------|-------|-----------------|
| | | | | Detection Limit | | |
| 01725 | TPH-GRO - Soils | n.a. | N.D. | 1.0 | mg/kg | 25 |
| The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | | |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | n.a. | 17. | 10. | mg/kg | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | | | | | |
| 02016 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.0005 | mg/kg | 1 |
| 02017 | di-Isopropyl ether | 108-20-3 | N.D. | 0.001 | mg/kg | 1 |
| 02018 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.001 | mg/kg | 1 |
| 02019 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.001 | mg/kg | 1 |
| 02020 | t-Butyl alcohol | 75-65-0 | N.D. | 0.020 | mg/kg | 1 |
| 05460 | Benzene | 71-43-2 | N.D. | 0.0005 | mg/kg | 1 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.001 | mg/kg | 1 |
| 05466 | Toluene | 108-88-3 | 0.002 | 0.001 | mg/kg | 1 |
| 05471 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.001 | mg/kg | 1 |
| 05474 | Ethylbenzene | 100-41-4 | N.D. | 0.001 | mg/kg | 1 |
| 06301 | Xylene (Total) | 1330-20-7 | 0.002 | 0.001 | mg/kg | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|----------|------------------|------------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 01725 | TPH-GRO - Soils | N. CA LUFT Gasoline method | 1 | 03/14/2005 15:43 | Martha L Seidel | 25 |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/16/2005 20:05 | Sarah M Snyder | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | SW-846 8260B | 1 | 03/14/2005 05:37 | Anastasia Papadopoulos | 1 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 03/14/2005 02:14 | Anastasia Papadopoulos | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 03/11/2005 15:56 | Eric L Vera | n.a. |
| 07024 | DRO Alternate Soil Extraction | TPH by CA LUFT | 1 | 03/15/2005 14:45 | Jason A Heisey | 1 |



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW 4479188

MW-4-S-10-050308 Grab Soil
Facility# 94737 MTI# 61H-1669 CETR
90 Corte Madera-Corte Mad T0604100033 MW-4
Collected: 03/08/2005 13:03 by KH

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/18/2005 at 12:27
Discard: 04/18/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

CMC10

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received | Units | Dilution Factor |
|---------|---|------------|--------------------|------------------------|-------|-----------------|
| | | | | Method Detection Limit | | |
| 01725 | TPH-GRO - Soils | n.a. | N.D. | 1.0 | mg/kg | 25 |
| | The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A poor surrogate recovery was observed. The analysis was repeated and a poor surrogate recovery was again observed indicating a significant matrix effect. | | | | | |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | n.a. | N.D. | 10. | mg/kg | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | | | | | |
| 02016 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.0005 | mg/kg | 1.01 |
| 02017 | di-Isopropyl ether | 108-20-3 | N.D. | 0.001 | mg/kg | 1.01 |
| 02018 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.001 | mg/kg | 1.01 |
| 02019 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.001 | mg/kg | 1.01 |
| 02020 | t-Butyl alcohol | 75-65-0 | N.D. | 0.020 | mg/kg | 1.01 |
| 05460 | Benzene | 71-43-2 | N.D. | 0.0005 | mg/kg | 1.01 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.001 | mg/kg | 1.01 |
| 05466 | Toluene | 108-88-3 | N.D. | 0.001 | mg/kg | 1.01 |
| 05471 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.001 | mg/kg | 1.01 |
| 05474 | Ethylbenzene | 100-41-4 | N.D. | 0.001 | mg/kg | 1.01 |
| 06301 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | mg/kg | 1.01 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------|------------------------|-----------------|
| | | | | Date and Time | | |
| 01725 | TPH-GRO - Soils | N. CA LUFT Gasoline method | 1 | 03/14/2005 16:29 | Martha L Seidel | 25 |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/16/2005 13:21 | Sarah M Snyder | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | SW-846 8260B | 1 | 03/14/2005 05:59 | Anastasia Papadopoulos | 1.01 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 03/14/2005 02:16 | Anastasia Papadopoulos | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 03/11/2005 16:00 | Eric L Vera | n.a. |
| 07024 | DRO Alternate Soil Extraction | TPH by CA LUFT | 1 | 03/15/2005 14:45 | Jason A Heisey | 1 |



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW 4479189

MW-4-S-15-050308 Grab Soil
Facility# 94737 MTI# 61H-1669 CETR
90 Corte Madera-Corte Mad T0604100033 MW-4
Collected: 03/08/2005 13:10 by KH

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/18/2005 at 12:28
Discard: 04/18/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

CMC15

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|------------------------------------|-------|-----------------|
| 01725 | TPH-GRO - Soils The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | n.a. | N.D. | 1.0 | mg/kg | 25 |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | n.a. | N.D. | 10. | mg/kg | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | | | | | |
| 02016 | Methyl Tertiary Butyl Ether | 1634-04-4 | 0.0009 | 0.0005 | mg/kg | 1 |
| 02017 | di-Isopropyl ether | 108-20-3 | N.D. | 0.001 | mg/kg | 1 |
| 02018 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.001 | mg/kg | 1 |
| 02019 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.001 | mg/kg | 1 |
| 02020 | t-Butyl alcohol | 75-65-0 | N.D. | 0.020 | mg/kg | 1 |
| 05460 | Benzene | 71-43-2 | N.D. | 0.0005 | mg/kg | 1 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.001 | mg/kg | 1 |
| 05466 | Toluene | 108-88-3 | N.D. | 0.001 | mg/kg | 1 |
| 05471 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.001 | mg/kg | 1 |
| 05474 | Ethylbenzene | 100-41-4 | N.D. | 0.001 | mg/kg | 1 |
| 06301 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | mg/kg | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------------|------------------------|-----------------|
| 01725 | TPH-GRO - Soils | N. CA LUFT Gasoline method | 1 | 03/14/2005 17:15 | Martha L Seidel | 25 |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/16/2005 13:44 | Sarah M Snyder | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | SW-846 8260B | 1 | 03/14/2005 08:38 | Anastasia Papadopoulos | 1 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 03/14/2005 02:18 | Anastasia Papadopoulos | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 03/11/2005 16:07 | Eric L Vera | n.a. |
| 07024 | DRO Alternate Soil Extraction | TPH by CA LUFT | 1 | 03/15/2005 14:45 | Jason A Heisey | 1 |



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW 4479190

MW-4-S-20-050308 Grab Soil
Facility# 94737 MTI# 61H-1669 CETR
90 Corte Madera-Corte Mad T0604100033 MW-4
Collected: 03/08/2005 13:13 by KH

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/18/2005 at 12:28
Discard: 04/18/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

CMC20

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | Units | Dilution Factor |
|---|--------------------------------|------------|--------------------|--------------------|-------|-----------------|
| | | | | Detection Limit | | |
| 01725 | TPH-GRO - Soils | n.a. | N.D. | 1.0 | mg/kg | 25 |
| The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | | |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | n.a. | N.D. | 10. | mg/kg | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | | | | | |
| 02016 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.0005 | mg/kg | 1 |
| 02017 | di-Isopropyl ether | 108-20-3 | N.D. | 0.001 | mg/kg | 1 |
| 02018 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.001 | mg/kg | 1 |
| 02019 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.001 | mg/kg | 1 |
| 02020 | t-Butyl alcohol | 75-65-0 | N.D. | 0.020 | mg/kg | 1 |
| 05460 | Benzene | 71-43-2 | N.D. | 0.0005 | mg/kg | 1 |
| 05461 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.001 | mg/kg | 1 |
| 05466 | Toluene | 108-88-3 | N.D. | 0.001 | mg/kg | 1 |
| 05471 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.001 | mg/kg | 1 |
| 05474 | Ethylbenzene | 100-41-4 | N.D. | 0.001 | mg/kg | 1 |
| 06301 | Xylene (Total) | 1330-20-7 | N.D. | 0.001 | mg/kg | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------|------------------------|-----------------|
| | | | | Date and Time | | |
| 01725 | TPH-GRO - Soils | N. CA LUFT Gasoline method | 1 | 03/14/2005 18:01 | Martha L Seidel | 25 |
| 02201 | TPH-DRO CALUFT(Soils) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/16/2005 14:06 | Sarah M Snyder | 1 |
| 07361 | BTEX+5 Oxygenates+EDC+EDB | SW-846 8260B | 1 | 03/14/2005 09:00 | Anastasia Papadopoulos | 1 |
| 00374 | GC/MS - Bulk Sample Prep | SW-846 5030A | 1 | 03/14/2005 02:20 | Anastasia Papadopoulos | n.a. |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 03/11/2005 16:14 | Eric L Vera | n.a. |
| 07024 | DRO Alternate Soil Extraction | TPH by CA LUFT | 1 | 03/15/2005 14:45 | Jason A Heisey | 1 |

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 03/18/05 at 12:28 PM

Group Number: 934860

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--|--------------|-----------|--------------|----------|-----------|-----------------|-----|---------|
| Batch number: 05071A02B TPH-GRO - Soils | N.D. | 1.0 | mg/kg | 77 | | 67-119 | | |
| Batch number: 050740007A TPH-DRO CALUFT(Soils) w/Si Gel | N.D. | 10. | mg/kg | 97 | | 61-130 | | |
| Batch number: A050691AB Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/kg | 97 | | 75-125 | | |
| di-Isopropyl ether | N.D. | 1. | ug/kg | 93 | | 70-129 | | |
| Ethyl t-butyl ether | N.D. | 1. | ug/kg | 91 | | 71-124 | | |
| t-Amyl methyl ether | N.D. | 1. | ug/kg | 93 | | 63-129 | | |
| t-Butyl alcohol | N.D. | 20. | ug/kg | 97 | | 51-160 | | |
| Benzene | N.D. | 0.5 | ug/kg | 102 | | 77-119 | | |
| 1,2-Dichloroethane | N.D. | 1. | ug/kg | 101 | | 76-126 | | |
| Toluene | N.D. | 1. | ug/kg | 104 | | 81-116 | | |
| 1,2-Dibromoethane | N.D. | 1. | ug/kg | 103 | | 77-114 | | |
| Ethylbenzene | N.D. | 1. | ug/kg | 104 | | 82-115 | | |
| Xylene (Total) | N.D. | 1. | ug/kg | 106 | | 82-117 | | |

Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|--|---------|----------|---------------|-----|---------|----------|----------|---------|-------------|
| Batch number: 05071A02B TPH-GRO - Soils | 65 | 62 | 39-118 | 4 | 30 | | | | |
| Batch number: 050740007A TPH-DRO CALUFT(Soils) w/Si Gel | 89 | 86 | 33-140 | 4 | 20 | | | | |
| Batch number: A050691AB Methyl Tertiary Butyl Ether | 90 | 88 | 49-140 | 3 | 30 | | | | |
| di-Isopropyl ether | 94 | 91 | 63-129 | 3 | 30 | | | | |
| Ethyl t-butyl ether | 88 | 87 | 65-123 | 2 | 30 | | | | |
| t-Amyl methyl ether | 90 | 87 | 58-126 | 4 | 30 | | | | |
| t-Butyl alcohol | 94 | 87 | 46-148 | 7 | 30 | | | | |
| Benzene | 103 | 97 | 67-123 | 6 | 30 | | | | |
| 1,2-Dichloroethane | 97 | 93 | 62-130 | 4 | 30 | | | | |
| Toluene | 105 | 101 | 55-125 | 5 | 30 | | | | |
| 1,2-Dibromoethane | 97 | 94 | 62-116 | 4 | 30 | | | | |
| Ethylbenzene | 104 | 98 | 50-127 | 6 | 30 | | | | |
| Xylene (Total) | 106 | 99 | 54-123 | 7 | 30 | | | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 03/18/05 at 12:28 PM

Group Number: 934860

Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---------------|------------|-------------|------------------|-----|------------|-------------|-------------|------------|----------------|
|---------------|------------|-------------|------------------|-----|------------|-------------|-------------|------------|----------------|

Surrogate Quality Control

Analysis Name: TPH-GRO - Soils
Batch number: 05071A02B
Trifluorotoluene-F

| | |
|---------|-----|
| 4479187 | 64 |
| 4479188 | 59* |
| 4479189 | 61 |
| 4479190 | 61 |
| Blank | 92 |
| LCS | 90 |
| MS | 70 |
| MSD | 71 |

Limits: 61-122

Analysis Name: TPH-DRO CALUFT(Soils) w/Si Gel
Batch number: 050740007A
Orthoterphenyl

| | |
|---------|-----|
| 4479187 | 79 |
| 4479188 | 80 |
| 4479189 | 101 |
| 4479190 | 86 |
| Blank | 94 |
| LCS | 96 |
| MS | 92 |
| MSD | 92 |

Limits: 35-136

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: A050691AB

| | Dibromofluoromethane | 1,2-Dichloroethane-d4 | Toluene-d8 | 4-Bromofluorobenzene |
|---------|----------------------|-----------------------|------------|----------------------|
| 4479187 | 102 | 96 | 112 | 85 |
| 4479188 | 102 | 97 | 111 | 84 |
| 4479189 | 103 | 101 | 110 | 86 |
| 4479190 | 105 | 109 | 106 | 90 |
| Blank | 104 | 102 | 107 | 89 |
| LCS | 102 | 99 | 110 | 92 |
| MS | 103 | 98 | 111 | 92 |
| MSD | 103 | 98 | 110 | 92 |

Limits: 70-129

70-121

70-130

70-128

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Where quality is a science.

Sample #: 4479187-9C

SCR#: 934860

Facility #: Chevron 9-4737

Site Address: 90 Corte Madera Town Center, Corte Madera

Chevron PM: D. Thurman Lead Consultant: Cambria

Consultant/Office: Rocklin

Consultant Proj. Mgr.: B. Eppeler

Consultant Phone #: 916 630-1855 Fax #: 916 630-1856

Sampler: K. Hoey

Service Order #: 7 ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
N = HNO₃ B = NaOH
S = H₂SO₄ O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

TPH_g, TPH_d,
BTX_g, MTBE,
TAME, DIPE,
TBA, ETBE,
1,2-DCA, EOB

Turnaround Time Requested (TAT) (please circle)

| | | |
|-----------|---------|---------|
| (STD. TAT | 72 hour | 48 hour |
| 24 hour | 4 day | 5 day |

Data Package Options (please circle if required)

QC Summary Type I - Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:

| | | | | |
|------|------|--------------|------|------|
| Date | Time | Received by: | Date | Time |
|------|------|--------------|------|------|

Relinquished by:

| | | | | |
|------|------|--------------|------|------|
| Date | Time | Received by: | Date | Time |
|------|------|--------------|------|------|

Relinquished by:

| | | | | |
|------|------|--------------|------|------|
| Date | Time | Received by: | Date | Time |
|------|------|--------------|------|------|

Relinquished by Commercial Carrier:

| | | | |
|--------------|-----|------|------|
| Received by: | / / | Date | Time |
|--------------|-----|------|------|

UPS ☒ FedEx ☐ Other ☐

James W. White 3/10/05 10/10

Temperature Upon Receipt: 2.7 C°

| | | |
|-----------------------|-----|----|
| Custody Seals Intact? | Yes | No |
|-----------------------|-----|----|

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 10/04/01

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|-----------------|----------------------------------|
| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| ug | microgram(s) | mg | milligram(s) |
| ml | milliliter(s) | l | liter(s) |
| m3 | cubic meter(s) | ul | microliter(s) |
| < | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| J | estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ). | | |
| ppm | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. | | |

U.S. EPA CLP Data Qualifiers:

| Organic Qualifiers | | Inorganic Qualifiers | |
|--------------------|---|----------------------|---|
| A | TIC is a possible aldol-condensation product | B | Value is $<$ CRDL, but \geq IDL |
| B | Analyte was also detected in the blank | E | Estimated due to interference |
| C | Pesticide result confirmed by GC/MS | M | Duplicate injection precision not met |
| D | Compound quantitated on a diluted sample | N | Spike sample not within control limits |
| E | Concentration exceeds the calibration range of the instrument | S | Method of standard additions (MSA) used for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| P | Concentration difference between primary and confirmation columns $>25\%$ | W | Post digestion spike out of control limits |
| U | Compound was not detected | * | Duplicate analysis not within control limits |
| X,Y,Z | Defined in case narrative | + | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677
916-630-1855

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 934862. Samples arrived at the laboratory on Thursday, March 10, 2005. The PO# for this group is 99011184 and the release number is THURMAN.

Client Description

SP-S-050308 Composite Soil

Lancaster Labs Number

4479193

1 COPY TO
1 COPY TO

Cambria Environmental
IWM, Inc.

Attn: Jami Shaffer
Attn: Jay DeLeon

Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300.

Respectfully Submitted,

Dana M. Kauffman
Group Leader



Analysis Report

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Lancaster Laboratories Sample No. SW 4479193

SP-S-050308 Composite Soil
Facility# 94737 MTI# 61H-1669
90 Corte Madera-Corte Mad T0604100033 SP
Collected: 03/08/2005 14:00 by KH

CETR

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/16/2005 at 16:45
Discard: 04/16/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

473SP

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method | Units | Dilution Factor |
|--|---------------------------|------------|--------------------|--------------------|-------|-----------------|
| | | | | Detection Limit | | |
| 05547 | TPH - DRO CA LUFT (Soils) | n.a. | N.D. | 10. | mg/kg | 1 |
| 06955 | Lead | 7439-92-1 | 5.37 | 0.921 | mg/kg | 1 |
| 01726 | TPH-GRO - Soils | | | | | |
| 01727 | TPH-GRO - Soils | n.a. | N.D. | 1.0 | mg/kg | 25 |
| The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A poor surrogate recovery was observed. The analysis was repeated and a poor surrogate recovery was again observed indicating a significant matrix effect. | | | | | | |
| 02160 | BTEX/MTBE | | | | | |
| 02174 | Benzene | 71-43-2 | N.D. | 0.005 | mg/kg | 25 |
| 02177 | Toluene | 108-88-3 | N.D. | 0.005 | mg/kg | 25 |
| 02178 | Ethylbenzene | 100-41-4 | N.D. | 0.005 | mg/kg | 25 |
| 02182 | Total Xylenes | 1330-20-7 | N.D. | 0.02 | mg/kg | 25 |
| 02199 | MTBE | 1634-04-4 | N.D. | 0.05 | mg/kg | 25 |

The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|---------|-------------------------------|----------------------------|----------|------------------|----------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 05547 | TPH - DRO CA LUFT (Soils) | CALUFT-DRO/8015B, Modified | 1 | 03/16/2005 09:00 | Sarah M Snyder | 1 |
| 06955 | Lead | SW-846 6010B | 1 | 03/14/2005 06:59 | Joanne M Gates | 1 |
| 01726 | TPH-GRO - Soils | N. CA LUFT Gasoline Method | 1 | 03/16/2005 00:15 | Corie L Hilyer | 25 |
| 02160 | BTEX/MTBE | SW-846 8021B | 1 | 03/16/2005 00:15 | Corie L Hilyer | 25 |
| 01150 | GC - Bulk Soil Prep | SW-846 5035 | 1 | 03/11/2005 16:50 | Eric L Vera | n.a. |
| 05708 | SW SW846 ICP Digest | SW-846 3050B | 1 | 03/13/2005 20:00 | Annamaria Stipkovits | 1 |
| 07024 | DRO Alternate Soil Extraction | TPH by CA LUFT | 1 | 03/15/2005 14:45 | Jason A Heisey | 1 |



Analysis Report

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Lancaster Laboratories Sample No. SW 4479193

SP-S-050308 Composite Soil
Facility# 94737 MTI# 61H-1669
90 Corte Madera-Corte Mad T0604100033 SP
Collected: 03/08/2005 14:00 by KH

CETR

Account Number: 10880

Submitted: 03/10/2005 09:10
Reported: 03/16/2005 at 16:45
Discard: 04/16/2005

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 9
Rocklin CA 95677

473SP

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 03/16/05 at 04:45 PM

Group Number: 934862

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|----------------------------|---------------------------|-----------|--------------|----------|-----------|-----------------|-----|---------|
| Batch number: 050725708001 | Sample number(s): 4479193 | | | | | | | |
| Lead | N.D. | 0.930 | mg/kg | 98 | | 86-109 | | |
| Batch number: 050740007A | Sample number(s): 4479193 | | | | | | | |
| TPH - DRO CA LUFT (Soils) | N.D. | 10. | mg/kg | 97 | | 61-130 | | |
| Batch number: 05074A34A | Sample number(s): 4479193 | | | | | | | |
| TPH-GRO - Soils | N.D. | 1.0 | mg/kg | 93 | | 67-119 | | |
| Benzene | N.D. | 0.005 | mg/kg | 94 | | 85-115 | | |
| Toluene | N.D. | 0.005 | mg/kg | 90 | | 81-119 | | |
| Ethylbenzene | N.D. | 0.005 | mg/kg | 91 | | 85-115 | | |
| Total Xylenes | N.D. | 0.02 | mg/kg | 94 | | 85-115 | | |
| MTBE | N.D. | 0.05 | mg/kg | 95 | | 71-118 | | |

Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|----------------------------|---------------------------|----------|---------------|-----|---------|----------|----------|---------|-------------|
| Batch number: 050725708001 | Sample number(s): 4479193 | | | | | | | | |
| Lead | 96 | 96 | 75-125 | 1 | 20 | 4.49 | 4.51 | 1 (1) | 20 |
| Batch number: 050740007A | Sample number(s): 4479193 | | | | | | | | |
| TPH - DRO CA LUFT (Soils) | 89 | 86 | 33-140 | 4 | 20 | | | | |
| Batch number: 05074A34A | Sample number(s): 4479193 | | | | | | | | |
| TPH-GRO - Soils | 115 | 115 | 39-118 | 0 | 30 | | | | |
| Benzene | 98 | 95 | 52-135 | 2 | 30 | | | | |
| Toluene | 95 | 91 | 59-129 | 5 | 30 | | | | |
| Ethylbenzene | 96 | 94 | 56-132 | 2 | 30 | | | | |
| Total Xylenes | 102 | 99 | 54-134 | 2 | 30 | | | | |
| MTBE | 107 | 104 | 45-141 | 3 | 30 | | | | |

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Soils)
Batch number: 050740007A
Orthoterphenyl

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 03/16/05 at 04:45 PM

Group Number: 934862

Surrogate Quality Control

4479193 83
Blank 94
LCS 96
MS 92
MSD 92

Limits: 35-136

Analysis Name: BTEX/MTBE
Batch number: 05074A34A

| | Trifluorotoluene-F | Trifluorotoluene-P |
|---------|--------------------|--------------------|
| 4479193 | 59* | 63 |
| Blank | 101 | 104 |
| LCS | 108 | 108 |
| MS | 84 | 85 |
| MSD | 87 | 83 |

Limits: 61-122

63-126

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|-----------------|----------------------------------|
| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| ug | microgram(s) | mg | milligram(s) |
| ml | milliliter(s) | l | liter(s) |
| m3 | cubic meter(s) | ul | microliter(s) |
| < | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| J | estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ). | | |
| ppm | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. | | |

U.S. EPA CLP Data Qualifiers:

| Organic Qualifiers | | Inorganic Qualifiers | |
|--------------------|---|----------------------|---|
| A | TIC is a possible aldol-condensation product | B | Value is $<$ CRDL, but \geq IDL |
| B | Analyte was also detected in the blank | E | Estimated due to interference |
| C | Pesticide result confirmed by GC/MS | M | Duplicate injection precision not met |
| D | Compound quantitated on a diluted sample | N | Spike sample not within control limits |
| E | Concentration exceeds the calibration range of the instrument | S | Method of standard additions (MSA) used for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| P | Concentration difference between primary and confirmation columns $>25\%$ | W | Post digestion spike out of control limits |
| U | Compound was not detected | * | Duplicate analysis not within control limits |
| X,Y,Z | Defined in case narrative | + | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677
916-630-1855

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 936086. Samples arrived at the laboratory on Saturday, March 19, 2005. The PO# for this group is 99011184 and the release number is MTI.

| <u>Client Description</u> | | | <u>Lancaster Labs Number</u> |
|---------------------------|------|-------|------------------------------|
| QA-T-050318 | NA | Water | 4486112 |
| MW-1-W-050318 | Grab | Water | 4486113 |
| MW-2-W-050318 | Grab | Water | 4486114 |
| MW-3-W-050318 | Grab | Water | 4486115 |
| MW-4-W-050318 | Grab | Water | 4486116 |
| ACMW-1-W-050318 | Grab | Water | 4486117 |

1 COPY TO
ELECTRONIC
COPY TO

Cambria C/O Gettler- Ryan
Gettler-Ryan

Attn: Deanna L. Harding
Attn: Cheryl Hansen



Analysis Report

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Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Jenifer E Hess".

Jenifer Hess
Group Leader



Analysis Report

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Lancaster Laboratories Sample No. WW 4486112

QA-T-050318 NA Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 QA
Collected: 03/18/2005

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCMQA

| CAT No. | Analysis Name | CAS Number | As Received | As Received | Units | Dilution Factor |
|---------|---|------------|-------------|---------------------------|-------|-----------------|
| | | | Result | Method Detection Limit | | |
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06054 | BTEX+MTBE by 8260B | | | | | |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|---------|----------------------|---------------------|----------|------------------|------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline | 1 | 03/24/2005 22:15 | Brian C Veety | 1 |
| | | Method | | | | |
| 06054 | BTEX+MTBE by 8260B | SW-846 8260B | 1 | 03/22/2005 11:51 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 22:15 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/22/2005 11:51 | Ginelle L Haines | n.a. |



Analysis Report

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Lancaster Laboratories Sample No. WW 4486113

MW-1-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 MW-1
Collected: 03/18/2005 09:35 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCM01

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received | Units | Dilution Factor |
|---------|---|------------|--------------------|------------------------|-------|-----------------|
| | | | | Method Detection Limit | | |
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06610 | TPH-DRO CALUPT(Water) w/Si Gel | n.a. | 360. | 50. | ug/l | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | N.D. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|---------|--------------------------------|-----------------------------------|----------|------------------|--------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline | 1 | 03/25/2005 03:33 | Brian C Veety | 1 |
| 06610 | TPH-DRO CALUPT(Water) w/Si Gel | Method CALUPT-DRO/8015B, Modified | 1 | 03/25/2005 09:37 | Tracy A Cole | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | SW-846 8260B | 1 | 03/24/2005 15:41 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/25/2005 03:33 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 15:41 | Ginelle L Haines | n.a. |
| 02135 | Extraction - DRO Water Special | TPH by CA LUFT | 1 | 03/22/2005 07:30 | Danette S Blystone | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 4486114

MW-2-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 MW-2
Collected: 03/18/2005 10:10 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCM02

| CAT No. | Analysis Name | CAS Number | As Received | As Received | Units | Dilution Factor |
|---------|---|------------|-------------|------------------------|-------|-----------------|
| | | | Result | Method Detection Limit | | |
| 01728 | TPH-GRO - Waters | n.a. | 670. | 100. | ug/l | 2 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | n.a. | 410. | 50. | ug/l | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 36. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 4. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 6. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | 1. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | 2. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | 0.5 | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------|--------------------|-----------------|
| | | | | Date and Time | | |
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 03/25/2005 04:01 | Brian C Veety | 2 |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/25/2005 10:01 | Tracy A Cole | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | SW-846 8260B | 1 | 03/24/2005 16:06 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/25/2005 04:01 | Brian C Veety | 2 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 16:06 | Ginelle L Haines | n.a. |
| 02135 | Extraction - DRO Water Special | TPH by CA LUFT | 1 | 03/22/2005 07:30 | Danette S Blystone | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 4486115

MW-3-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 MW-3
Collected: 03/18/2005 09:00 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCM03

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|---|------------|--------------------|------------------------------------|-------|-----------------|
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | n.a. | 930. | 50. | ug/l | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 150. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | 7. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | 260. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------------|--------------------|-----------------|
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 03/25/2005 04:30 | Brian C Veety | 1 |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/25/2005 10:25 | Tracy A Cole | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | SW-846 8260B | 1 | 03/24/2005 16:31 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/25/2005 04:30 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 16:31 | Ginelle L Haines | n.a. |
| 02135 | Extraction - DRO Water Special | TPH by CA LUFT | 1 | 03/22/2005 07:30 | Danette S Blystone | 1 |



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4486116

MW-4-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 MW-4
Collected: 03/18/2005 08:00 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCM04

| CAT No. | Analysis Name | CAS Number | As Received | As Received | Units | Dilution Factor |
|---|---------------------------------|------------|-------------|------------------------|-------|-----------------|
| | | | Result | Method Detection Limit | | |
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 7. | | | | | | |
| 06610 | TPH-DRO CALUFT (Water) w/Si Gel | n.a. | 210. | 50. | ug/l | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | 1. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | N.D. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | 0.5 | 0.5 | ug/l | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis | | Analyst | Dilution Factor |
|---------|---------------------------------|---|----------|------------------|--------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline | 1 | 03/25/2005 09:32 | Brian C Veety | 1 |
| 06610 | TPH-DRO CALUFT (Water) w/Si Gel | Method CALUFT-DRO/8015B, Modified | 1 | 03/25/2005 14:27 | Tracy A Cole | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | SW-846 8260B | 1 | 03/24/2005 17:21 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/25/2005 09:32 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 17:21 | Ginelle L Haines | n.a. |
| 02135 | Extraction - DRO Water Special | TPH by CA LUFT | 1 | 03/22/2005 07:30 | Danette S Blystone | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 4486116

MW-4-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 MW-4
Collected: 03/18/2005 08:00 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCM04



Analysis Report

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Lancaster Laboratories Sample No. WW 4486117

ACMW-1-W-050318 Grab Water
Facility# 94737 Job# 385262 MTI# 61H-1669 GRD
90 Madera-Corte Madera T0604100033 ACMW-1
Collected: 03/18/2005 08:35 by KK

Account Number: 10904

Submitted: 03/19/2005 09:45
Reported: 03/29/2005 at 13:34
Discard: 04/29/2005

ChevronTexaco c/o Cambria
Suite 9
4111 Citrus Avenue
Rocklin CA 95677

MCMA1

| CAT No. | Analysis Name | CAS Number | As Received | As Received | Units | Dilution Factor |
|---------|---|------------|-------------|------------------------|-------|-----------------|
| | | | Result | Method Detection Limit | | |
| 01728 | TPH-GRO - Waters | n.a. | N.D. | 50. | ug/l | 1 |
| | The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. | | | | | |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | n.a. | 100. | 50. | ug/l | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | | | | | |
| 01587 | Ethanol | 64-17-5 | N.D. | 50. | ug/l | 1 |
| 02010 | Methyl Tertiary Butyl Ether | 1634-04-4 | N.D. | 0.5 | ug/l | 1 |
| 02011 | di-Isopropyl ether | 108-20-3 | N.D. | 0.5 | ug/l | 1 |
| 02013 | Ethyl t-butyl ether | 637-92-3 | N.D. | 0.5 | ug/l | 1 |
| 02014 | t-Amyl methyl ether | 994-05-8 | N.D. | 0.5 | ug/l | 1 |
| 02015 | t-Butyl alcohol | 75-65-0 | N.D. | 5. | ug/l | 1 |
| 05401 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 05402 | 1,2-Dichloroethane | 107-06-2 | N.D. | 0.5 | ug/l | 1 |
| 05407 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 05412 | 1,2-Dibromoethane | 106-93-4 | N.D. | 0.5 | ug/l | 1 |
| 05415 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 06310 | Xylene (Total) | 1330-20-7 | N.D. | 0.5 | ug/l | 1 |

State of California Lab Certification No. 2116

Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis | Analyst | Dilution Factor |
|---------|--------------------------------|----------------------------|--------|------------------|--------------------|-----------------|
| | | | | Date and Time | | |
| 01728 | TPH-GRO - Waters | N. CA LUFT Gasoline Method | 1 | 03/25/2005 05:28 | Brian C Veety | 1 |
| 06610 | TPH-DRO CALUFT(Water) w/Si Gel | CALUFT-DRO/8015B, Modified | 1 | 03/25/2005 10:49 | Tracy A Cole | 1 |
| 01594 | BTEX+5 Oxygenates+EDC+EDB+ETOH | SW-846 8260B | 1 | 03/24/2005 17:46 | Ginelle L Haines | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/25/2005 05:28 | Brian C Veety | 1 |
| 01163 | GC/MS VOA Water Prep | SW-846 5030B | 1 | 03/24/2005 17:46 | Ginelle L Haines | n.a. |
| 02135 | Extraction - DRO Water Special | TPH by CA LUFT | 1 | 03/22/2005 07:30 | Danette S Blystone | 1 |



Analysis Report

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Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Reported: 03/29/05 at 01:34 PM

Group Number: 936086

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--|--------------|-----------|--------------|----------|-----------|-----------------|-----|---------|
| Batch number: 050800017A TPH-DRO CALUFT(Water) w/Si Gel | N.D. | 25. | ug/l | 85 | 70 | 61-130 | 19 | 20 |
| Batch number: 05083A08B TPH-GRO - Waters | N.D. | 50. | ug/l | 106 | 107 | 70-130 | 1 | 30 |
| Batch number: 05083A08C TPH-GRO - Waters | N.D. | 50. | ug/l | 106 | 107 | 70-130 | 1 | 30 |
| Batch number: 05083A08D TPH-GRO - Waters | N.D. | 50. | ug/l | 106 | 107 | 70-130 | 1 | 30 |
| Batch number: Z050812AA Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 91 | | 77-127 | | |
| Benzene | N.D. | 0.5 | ug/l | 93 | | 85-117 | | |
| Toluene | N.D. | 0.5 | ug/l | 97 | | 85-115 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 95 | | 82-119 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 96 | | 83-113 | | |
| Batch number: Z050831AA Ethanol | N.D. | 50. | ug/l | 95 | | 30-155 | | |
| Methyl Tertiary Butyl Ether | N.D. | 0.5 | ug/l | 87 | | 77-127 | | |
| di-Isopropyl ether | N.D. | 0.5 | ug/l | 84 | | 67-130 | | |
| Ethyl t-butyl ether | N.D. | 0.5 | ug/l | 86 | | 74-120 | | |
| t-Amyl methyl ether | N.D. | 0.5 | ug/l | 85 | | 79-113 | | |
| t-Butyl alcohol | N.D. | 5. | ug/l | 90 | | 57-141 | | |
| Benzene | N.D. | 0.5 | ug/l | 90 | | 85-117 | | |
| 1,2-Dichloroethane | N.D. | 0.5 | ug/l | 99 | | 77-132 | | |
| Toluene | N.D. | 0.5 | ug/l | 88 | | 85-115 | | |
| 1,2-Dibromoethane | N.D. | 0.5 | ug/l | 85 | | 81-114 | | |
| Ethylbenzene | N.D. | 0.5 | ug/l | 95 | | 82-119 | | |
| Xylene (Total) | N.D. | 0.5 | ug/l | 95 | | 83-113 | | |

Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---------|----------|---------------|-----|---------|----------|----------|---------|-------------|
| Batch number: 05083A08B TPH-GRO - Waters | | | | | | | | | |
| | | | | | | | | | |
| Batch number: 05083A08C | | | | | | | | | |
| | | | | | | | | | |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Reported: 03/29/05 at 01:34 PM

Group Number: 936086

Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|-----------------------------|-----------------------------------|-------------|------------------|-----|------------|-------------|-------------|------------|----------------|
| TPH-GRO - Waters | 136 | | 63-154 | | | | | | |
| Batch number: 05083A08D | Sample number(s): 4486116 | | | | | | | | |
| TPH-GRO - Waters | 136 | | 63-154 | | | | | | |
| Batch number: Z050812AA | Sample number(s): 4486112 | | | | | | | | |
| Methyl Tertiary Butyl Ether | 87 | 90 | 69-134 | 3 | 30 | | | | |
| Benzene | 97 | 96 | 83-128 | 1 | 30 | | | | |
| Toluene | 100 | 100 | 83-127 | 0 | 30 | | | | |
| Ethylbenzene | 99 | 100 | 82-129 | 0 | 30 | | | | |
| Xylene (Total) | 100 | 101 | 82-130 | 1 | 30 | | | | |
| Batch number: Z050831AA | Sample number(s): 4486113-4486117 | | | | | | | | |
| Ethanol | 105 | 91 | 26-153 | 14 | 30 | | | | |
| Methyl Tertiary Butyl Ether | 89 | 89 | 69-134 | 0 | 30 | | | | |
| di-Isopropyl ether | 83 | 83 | 75-130 | 1 | 30 | | | | |
| Ethyl t-butyl ether | 86 | 87 | 78-119 | 1 | 30 | | | | |
| t-Amyl methyl ether | 89 | 88 | 77-117 | 1 | 30 | | | | |
| t-Butyl alcohol | 89 | 91 | 51-147 | 2 | 30 | | | | |
| Benzene | 95 | 96 | 83-128 | 0 | 30 | | | | |
| 1,2-Dichloroethane | 96 | 97 | 73-136 | 1 | 30 | | | | |
| Toluene | 98 | 100 | 83-127 | 1 | 30 | | | | |
| 1,2-Dibromoethane | 93 | 94 | 78-120 | 2 | 30 | | | | |
| Ethylbenzene | 98 | 97 | 82-129 | 1 | 30 | | | | |
| Xylene (Total) | 99 | 97 | 82-130 | 3 | 30 | | | | |

Surrogate Quality Control

Analysis Name: TPH-DRO CALUFT(Water) w/Si Gel
Batch number: 050800017A
Orthoterphenyl

| | |
|---------|-----|
| 4486113 | 97 |
| 4486114 | 95 |
| 4486115 | 80 |
| 4486116 | 89 |
| 4486117 | 84 |
| Blank | 91 |
| LCS | 115 |
| LCSD | 111 |

Limits: 35-136

Analysis Name: TPH-GRO - Waters
Batch number: 05083A08B
Trifluorotoluene-F

| | |
|---------|-----|
| 4486112 | 114 |
| Blank | 113 |
| LCS | 116 |
| LCSD | 115 |
| MS | 119 |

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Reported: 03/29/05 at 01:34 PM

Group Number: 936086

Surrogate Quality Control

Limits: 70-142

Analysis Name: TPH-GRO - Waters
Batch number: 05083A08C
Trifluorotoluene-F

| | |
|---------|-----|
| 4486113 | 115 |
| 4486114 | 114 |
| 4486115 | 110 |
| 4486117 | 115 |
| Blank | 112 |
| LCS | 116 |
| LCSD | 115 |
| MS | 119 |

Limits: 70-142

Analysis Name: TPH-GRO - Waters
Batch number: 05083A08D
Trifluorotoluene-F

| | |
|---------|-----|
| 4486116 | 114 |
| Blank | 114 |
| LCS | 116 |
| LCSD | 115 |
| MS | 119 |

Limits: 70-142

Analysis Name: BTEX+MTBE by 8260B
Batch number: 2050812AA
Dibromofluoromethane

| | |
|---------|----|
| 4486112 | 95 |
| Blank | 97 |
| LCS | 96 |
| MS | 97 |
| MSD | 97 |

1,2-Dichloroethane-d4

| |
|----|
| 88 |
| 89 |
| 90 |
| 90 |
| 87 |

Toluene-d8

| |
|-----|
| 94 |
| 102 |
| 95 |
| 95 |
| 93 |

4-Bromofluorobenzene

| |
|----|
| 93 |
| 91 |
| 95 |
| 95 |
| 95 |

Limits: 81-120

82-112

85-112

83-113

Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH
Batch number: 2050831AA
Dibromofluoromethane

| | |
|---------|----|
| 4486113 | 98 |
| 4486114 | 96 |
| 4486115 | 96 |
| 4486116 | 99 |
| 4486117 | 97 |
| Blank | 84 |
| LCS | 94 |
| MS | 95 |
| MSD | 95 |

| |
|----|
| 92 |
| 92 |
| 93 |
| 95 |
| 92 |
| 90 |
| 94 |
| 89 |
| 91 |

| |
|----|
| 94 |
| 92 |
| 89 |
| 91 |
| 91 |
| 92 |
| 85 |
| 90 |
| 92 |

| |
|----|
| 92 |
| 99 |
| 90 |
| 86 |
| 87 |
| 87 |
| 92 |
| 90 |
| 91 |

Limits: 81-120

82-112

85-112

83-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ChevronTexaco c/o Cambria
Reported: 03/29/05 at 01:34 PM

Group Number: 936086

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



031805-07

Acct. #: 10904

For Lancaster Laboratories use only
Sample #: 4486112-17

SCR#: 936086

Cambria MTI Project # 61H-1669

Facility #: SS#9-4737 G-R#385262 Global ID#T0604100033

Site Address: 90 MADERA BLVD., CORTE MADERA, CA

Chevron PM/MTI Lead Consultant: CAMBRIABE

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #925-551-7555 Fax #925-551-7899

Sampler: Kristina Kelly

Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
N = HNO₃ B = NaOH
S = H₂SO₄ O = Other

☐ J value reporting needed

☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm highest hit by 8260

☐ Confirm all hits by 8260

☐ Run ____ oxy s on highest hit

☐ Run ____ oxy s on all hits

Comments / Remarks

TPH DRO w/ Si Gel needed.
MM 3/28/05

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Soil | Water | Oil | Air | Total Number of Containers | BTX + MTBE 8260 | TPH 8015 MOD GRO | TPH 8015 MOD DRO | 8260 full scan | 8 Oxygenates (8240) | Lead 7420 | 7421 |
|-----------------------|----------------|----------------|------|-----------|------|-------|-----|-----|----------------------------|-----------------|------------------|------------------|----------------|---------------------|-----------|------|
| QA | 3-18-05 | | | | | W | | | 2 | X | X | | | | | |
| MW-1 | | 0935 | X | | | | | | 8 | X | X | X | | X | | |
| MW-2 | | 1010 | X | | | | | | 8 | X | X | X | | X | | |
| MW-3 | | 0900 | X | | | | | | 8 | X | X | X | | X | | |
| MW-4 | | 0800 | X | | | | | | 8 | X | X | X | | X | | |
| AC MW-1 | ✓ | 0835 | X | | ✓ | | | | 8 | X | X | X | | X | | |

Turnaround Time Requested (TAT) (please circle)

8TD, TAT 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I — Full
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

EDF/EDD

Relinquished by:

Kristina Kelly

Relinquished by:

Bernardo Araya

Relinquished by:

Relinquished by Commercial Carrier:

UPS FedEx Other

Temperature Upon Receipt 23, 24, 25, 1.7°

Date

3/18/05

Date

3/18/05

Date

Date

Date

Date

Time

3:50

Time

Time

Time

Time

Time

Time

Received by:

Bernardo Araya

Received by:

FedEx

Received by:

Received by:

Received by:

Received by:

Date

3/18/05

Date

3/18/05

Date

Date

Date

Date

Time

3:50

Time

Time

Time

Time

Time

Time

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| | | | |
|-------------------------|--|-----------------|----------------------------------|
| N.D. | none detected | BMQL | Below Minimum Quantitation Level |
| TNTC | Too Numerous To Count | MPN | Most Probable Number |
| IU | International Units | CP Units | cobalt-chloroplatinate units |
| umhos/cm | micromhos/cm | NTU | nephelometric turbidity units |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| ug | microgram(s) | mg | milligram(s) |
| ml | milliliter(s) | l | liter(s) |
| m3 | cubic meter(s) | ul | microliter(s) |
| < | less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test. | | |
| > | greater than | | |
| J | estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ). | | |
| ppm | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas. | | |
| ppb | parts per billion | | |
| Dry weight basis | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis. | | |

U.S. EPA CLP Data Qualifiers:

| Organic Qualifiers | | Inorganic Qualifiers | |
|--------------------|---|----------------------|---|
| A | TIC is a possible aldol-condensation product | B | Value is $<$ CRDL, but \geq IDL |
| B | Analyte was also detected in the blank | E | Estimated due to interference |
| C | Pesticide result confirmed by GC/MS | M | Duplicate injection precision not met |
| D | Compound quantitated on a diluted sample | N | Spike sample not within control limits |
| E | Concentration exceeds the calibration range of the instrument | S | Method of standard additions (MSA) used for calculation |
| N | Presumptive evidence of a compound (TICs only) | U | Compound was not detected |
| P | Concentration difference between primary and confirmation columns $>25\%$ | W | Post digestion spike out of control limits |
| U | Compound was not detected | * | Duplicate analysis not within control limits |
| X,Y,Z | Defined in case narrative | + | Correlation coefficient for MSA <0.995 |

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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CAMBRIA



ATTACHMENT E

Standard Field Procedures for Borings and Wells

STANDARD FIELD PROCEDURES FOR MONITORING WELL INSTALLATION

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

DRILLING AND SAMPLING

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (PG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe[®]. Prior to drilling, the first 8 feet of the boring are cleared using an air or water knife and vacuum extraction. This minimizes the potential for impacting utilities.

Soil samples are collected at least every five feet to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytical laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two foot thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytical laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytical laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

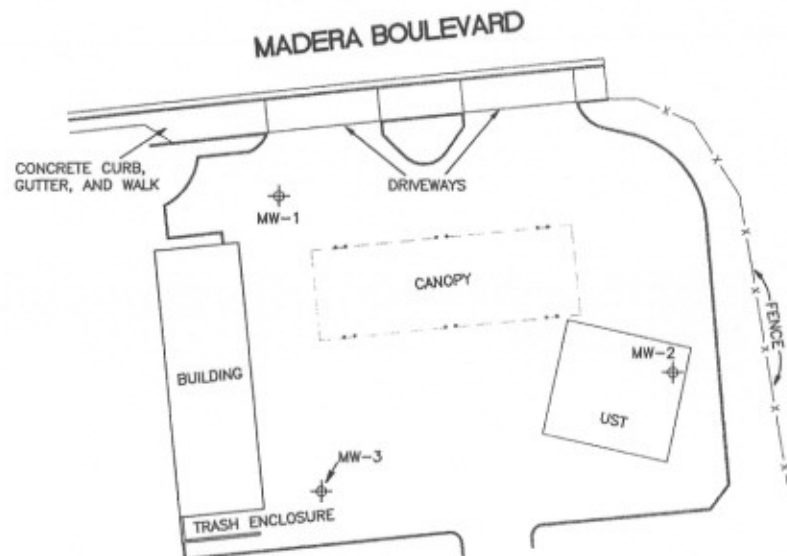
Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.



ATTACHMENT F
Well Survey Data

Monitoring Well Exhibit

Prepared For:
**Cambria
Environmental**



| DESCRIPTION | NORTHING | EASTING | ELEV (PVC) | ELEV (BOX) |
|-------------|-----------|-----------|------------|------------|
| MW-1 | 2167238.5 | 5980083.1 | 5.39 | 5.97 |
| MW-2 | 2167181.5 | 5980211.4 | 4.60 | 5.76 |
| MW-3 | 2167143.2 | 5980096.9 | 6.04 | 6.46 |
| MW-4 | 2167020.0 | 5980178.5 | 3.41 | 3.68 |
| ACMW-1 | 2167082.1 | 5980072.1 | 4.14 | 4.46 |

| DESCRIPTION | LATITUDE | LONGITUDE |
|-------------|------------|--------------|
| MW-1 | 37.9296584 | -122.5166051 |
| MW-2 | 37.9295096 | -122.5161561 |
| MW-3 | 37.9293974 | -122.5165501 |
| MW-4 | 37.9290640 | -122.5162582 |
| ACMW-1 | 37.9292284 | -122.5166317 |

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE UCD1 AND DIAB.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

SCALE: 1"=40'



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Date: 3-29-05
Scale: 1" = 40'
Sheet 1 of 1
Revised:
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Dwg. No. 0857-038 CT